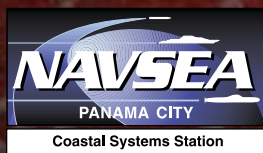


Mine Warfare



DAHLGREN PANAMA CITY DAM NECK

NAVAL SEA SYSTEMS COMMAND

NAVAL SURFACE WARFARE CENTER
DAHLGREN DIVISION

New Strategy, New Challenge

The Navy and Marine Corps' Forward . . . From the Sea strategic concept has expanded naval operations from open-ocean, "blue-water" combat environments to the littoral regions in which naval mines can both be an extremely menacing threat to US forces and an effective force multiplier for the Fleet. The Navy/Marine Corps must have effective Mine Warfare (MIW) forces to ensure the Fleet can carry out operations in the open ocean and littorals, including maintaining open sea lanes of communication and supporting Maneuver Warfare from the sea while denying operating areas to the enemy.

Mission

The MIW mission within Dahlgren Divisions's Coastal Systems Station (CSS) is to provide full-spectrum MIW support to the Fleet. This mission includes:

- Research, modeling, development, engineering, and testing of mine and mine countermeasures (MCM) systems
- Threat mine exploitation
- Mine and MCM tactics development
- Mine and MCM life cycle management
- Direct Fleet support

Capabilities

CSS is the recognized world leader in MIW expertise and facilities. With over 75 years of mining and nearly 50 years of MCM experience, CSS provides the Navy/Marine Corps with unequaled MIW technical expertise, research facilities, and engineering, operational, and tactical modeling. CSS maintains expertise in critical technologies and engineering disciplines used in MIW including:

- Full-spectrum software support activities
- Mine/MCM classification/identification
- Sensor image processing
- Influence and mechanical sweeps systems
- Coastal and sea mine neutralization systems
- Electro-optical sensors
- Precise MCM navigation systems
- MCM combat systems/trainers
- Diving and life support systems
- Explosive Ordnance Disposal (EOD)
- Sea-mine sensors
- Mine/MCM lifecycle support

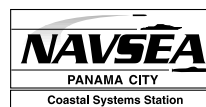
CSS has the facilities and capabilities to exploit new mine threats and to rapidly develop systems and tactics to counter them. State-of-the-art facilities include the following:

- Threat Mine Exploitation Facility
- Expeditionary Warfare Modeling and Simulation Facility
- Mine Warfare Test and Training Range
- Helicopter MCM Operating Facility
- Electro-Optics Laser Applications Laboratory
- Hydrospace Laboratory
- Magnetic Target Detection and Classification Range
- Underwater Countermeasure Fabrication Facility
- Underwater Weapon Systems Laboratory
- Very Shallow Water Mine Countermeasures Test Facility
- Very Shallow Water Sensor Test Bed
- Environmental Testing Laboratory
- Total Mine Simulation System

CSS provides a unique mix of engineering expertise, research laboratories, and test facilities dedicated to MIW. It is collocated with three other Navy activities whose missions in Amphibious Warfare (AMW), Naval Special Warfare (NSW), and diving directly support and complement MIW. This synergism of capabilities, experience, knowledge, facilities, and missions create an extraordinary environment in which to develop requirements, system hardware and software, and tactics for MIW and Expeditionary Warfare.



Located on St. Andrews Bay and only minutes from the Gulf of Mexico, CSS is ideally located to support littoral and deep water MIW testing and evaluation from research and development to fleet training.



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